

**Genetically modified organisms - salvation for the poor and hungry or something poisonous and harmful for people?**



# How GMO products are usually made?

This way...



or this way?

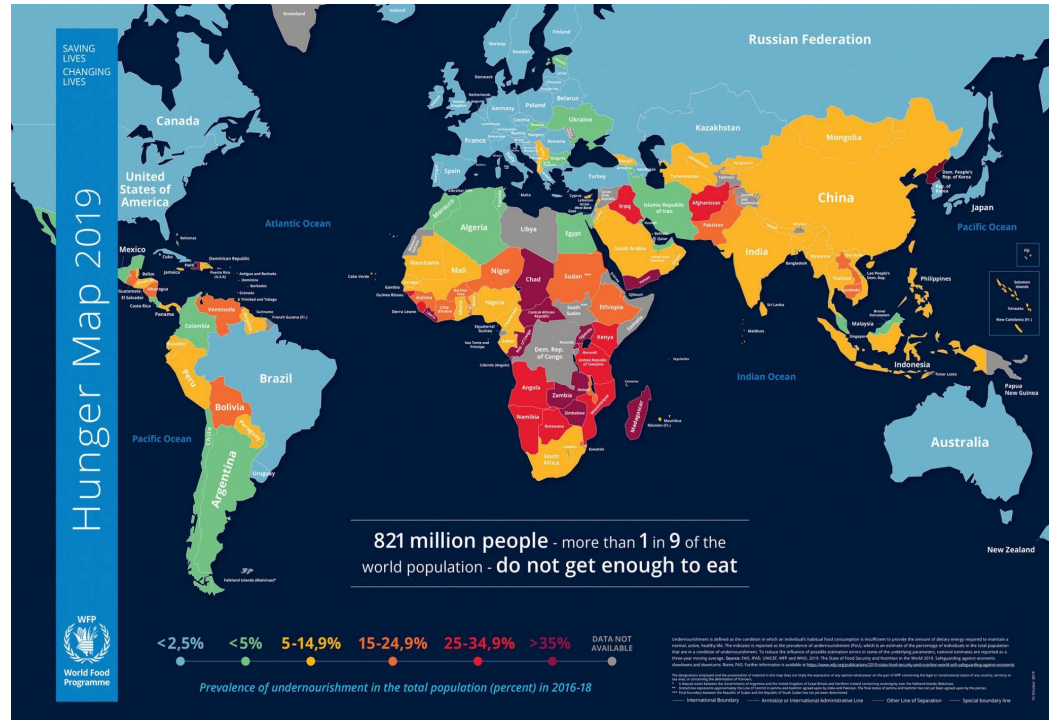


Let's start with benefits of GMO products... if there are any at all.

1) Economic benefit.

No more weeds and parasites!

2) Problem of hunger. No more deaths from hunger in Africa, cheap food for everyone.



# Pleiotropic effect. What is it and what is it generally eaten with.

Do we know for certain what  
a genome is and how it functions?

Silent sequences = genetic junk?

Main examples of Pleiotropic effect



1. Superweed (resistance 100%) as a result of cross-pollination
2. Unexpected pests (moth -> aphid)
3. Fast rotting but resistant for colorado beetle potato.
4. Drought resistant corn with unexpectedly cracked stems.



# Impact of GMOs on soil.

Residues of GMO plants do not rot  
because bacteria do not  
decompose them,  
and just die.



# Antibiotics.

GMOs are resistant  
to them, but is it good?



In addition, foreign proteins are allergenic.

Foreign proteins can produce allergy. Children are in danger.



# How GMO spread

1995 - first GMO field in USA,  
but soon it was found in Canada.

Is it possible to get rid of GMO?

How GMO can travel from USA to  
Canada and Mexico?

